

PRINCE PUBLIC SCHOOL
HALF YEARLY EXAMINATION(2019-20)
SAMPLE PAPER- 1
SCIENCE
IX

TIME ALLOWED : 3 HOURS

MAXIMUM MARKS: 70

General Instructions

1. There are 36 questions in total. This question paper comprises of four sections A, B, C and D.
2. Internal choice may be given in some questions. A student has to attempt only one of the alternatives in such questions.
3. Question number 1 to 10 in section A are one mark questions. These are multiple choice questions.
4. Question number 11 to 20 in section B are also one mark questions. These are to be answered in one word or in one sentence.
5. Question number 21 to 30 in section C are three marks questions. These are to be answered in about 50 words each.
6. Question number 31 to 36 in section D are five marks questions. These are to be answered in about 70 words each.

Section -A

- Q1.** Solid carbon dioxide is known as _____.
- a) dry ice b) ice c) solid d) dry gas
- Q2.** Green coloured plastids are called _____.
- a) chromoplast b) chloroplast c) leucoplast d) lysosomes
- Q3.** The brain of the cell is called as _____.
- a) stroma b) grana c) cristae d) oxysomes
- Q4.** _____ affects the rate of evaporation.
- a) Surface area b) Pressure c) Density d) Air
- Q5.** Rate of change of velocity of a body is known as _____.
- a) acceleration b) speed c) motion d) distance
- Q6.** _____ will show Tyndall effect.
- a) Salt solution b) Sulphur in water c) Vinegar d) Milk
- Q7.** Pisciculture deals with _____.
- a) bee keeping b) rearing cows c) rearing fishes d) rearing fowls
- Q8.** Bone is an example of _____ tissue .
- a) muscular b) connective c) epithelial d) nervous
- Q9.** _____ kg mass of a body can attain an acceleration of 8 m/s^2 under a force of 240N.
- a) 3 b) 250 c) 50 d) 10
- Q10.** A stone dropped from a building takes 4 s to reach the ground. The height of the building is _____ m.
- a) 19.6 b) 80.4 c) 78.4 d) 156.8

Section -B

- Q11.** Differentiate between evaporation and boiling.
- Q12.** What is the effect of pressure on the rate of diffusion?
- Q13.** Give two examples of colloids.
- Q14.** Which cell organelle synthesized proteins?
- Q15.** Where is tendon found?
- Q16.** Define non-uniform motion.
- Q17.** Which is the living element of phloem?
- Q18.** State second law of motion.
- Q19.** What do you mean by buoyancy?
- Q20.** Name one oil yielding crop.

Section –C

- Q21.** Describe an activity to show particles have spaces among them.
- Q22.** Give three difference between sclerenchyma and collenchyma.

OR

Name three different types of muscular tissue.

- Q23.** Draw the diagram of nervous tissue.
- Q24.** Derive the third equation of motion graphically.
- Q25.** A cricket player lowers his hand while catching a fast-moving ball. Explain why?
- Q26.** The volume of a 500 g sealed packet is 350 cm^3 . Will the packet float or sink in water, if the density of water is 1 g/cm^3 . What will be the mass of the water displaced by this packet?
- Q27.** What is Archimedes Principle? Write two applications of this principle.
- Q28.** Write the main cause for loss of grain during storage.
- Q29.** Why is cold-drink bottle kept in freezer breaks? Explain.
- Q30.** Write basic principles for the following.
- Crystallization
 - Sublimation

Section –D

- Q31.** How will you separate water from alcohol? Explain the process with diagram.
- Q32. a)** What is the difference between boiling and evaporation.
- b)** Discuss four factors which affect evaporation.

OR

Differentiate a photosynthesizing cell from a cell of your body.

- Q33.** A stone is dropped from the edge of a roof.
- How long does it take to fall at a distance of 4.9 m?
 - What will be its acceleration after 1s and 2s?
 - How fast does it move at the end of the fall?
 - Define gravity.
 - What is free fall under gravity?
- Q34.** What is mixed cropping? How does it help the farmer?

OR

Define humus. What are harmful effects of pesticides and fertilizer on soil?

- Q35. a)** A car speed increases from 40km/h to 60km/h in 5 seconds. Calculate the acceleration of car.
- b)** Write the difference between uniform linear motion and uniform circular motion.

Q36. Differentiate between the various types of muscular tissue. Draw their diagrams.

OR

What is the location and function of companion cells? How is water transported with the help of xylem?